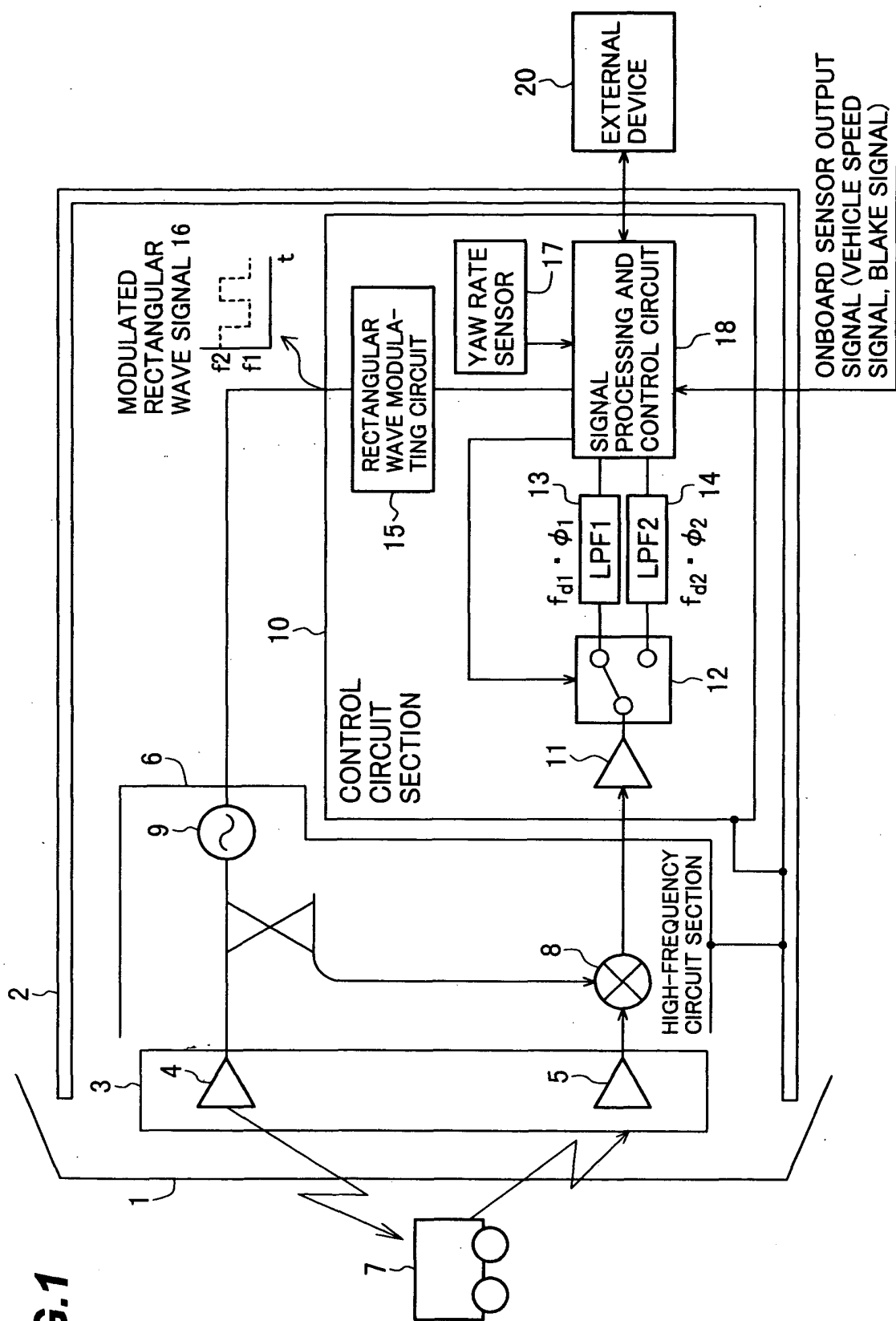
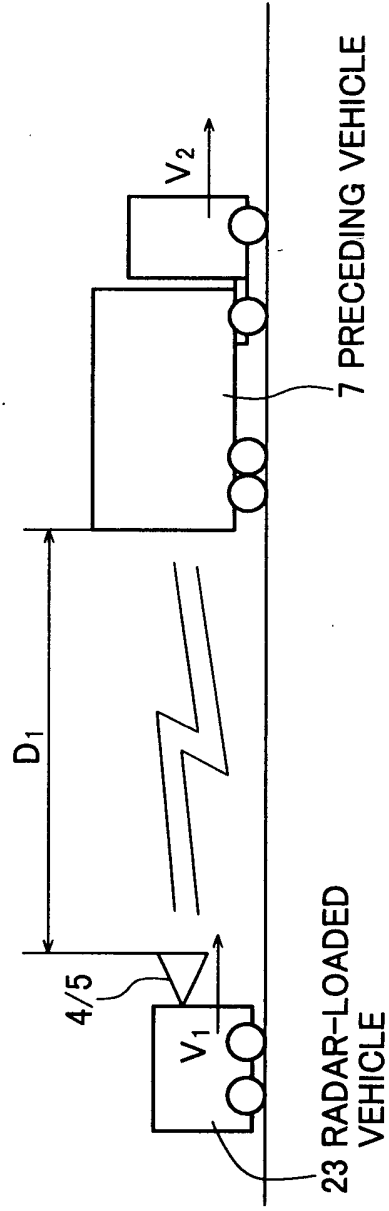


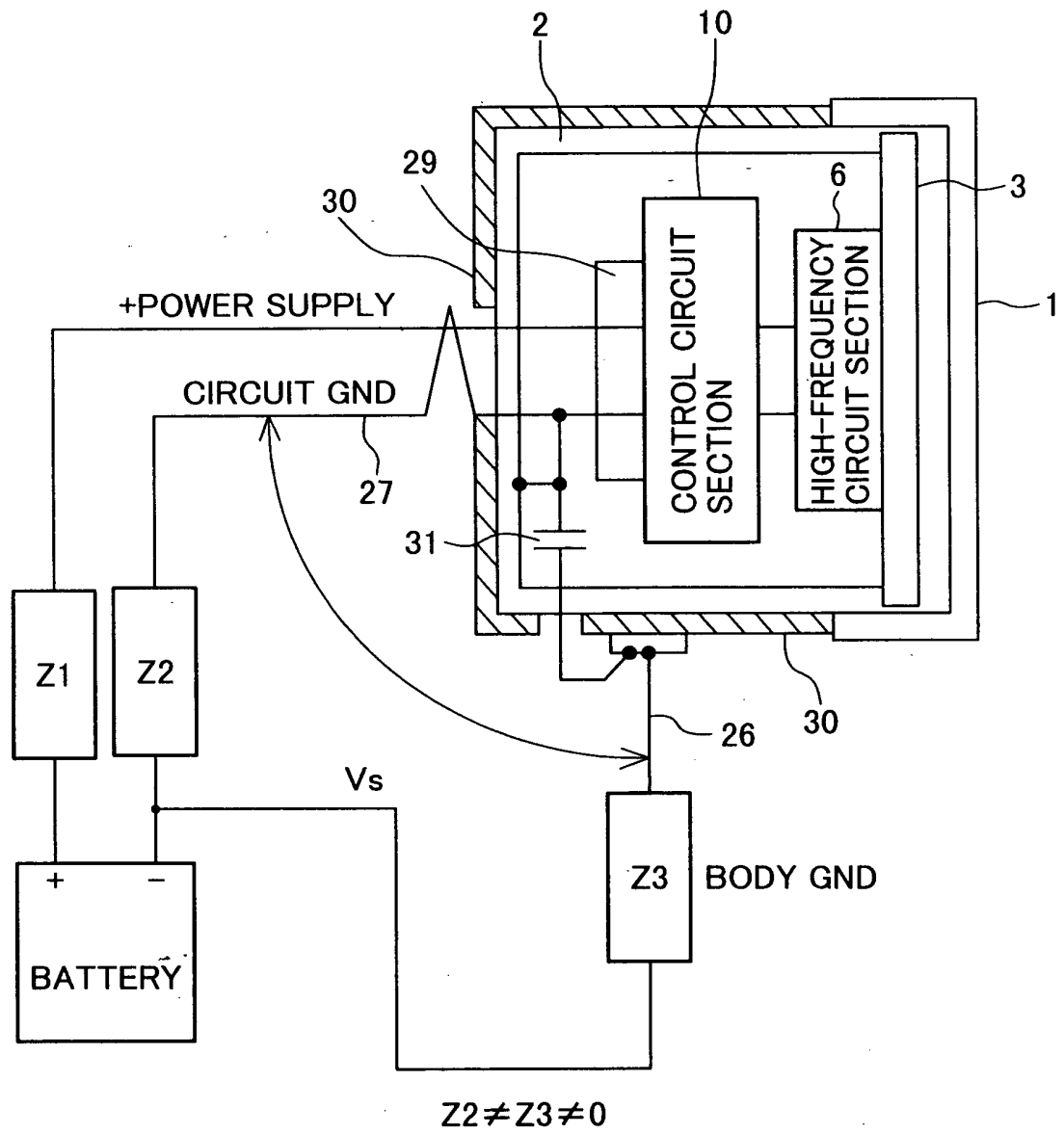
Fig. 1 is a block diagram of a vehicle speed sensor system. The system includes a vehicle (7) with a wheel (1) and a sensor assembly (2). The sensor assembly contains a high-frequency section (3) with an amplifier (4) and a mixer (5). A modulated rectangular wave signal (16) is input to the mixer (5) and a rectangular wave modulating circuit (15). The mixer (5) also receives a signal from a yaw rate sensor (17). The output of the mixer (5) is a high-frequency signal (8) which is then processed by a signal processing and control circuit (18). The signal processing and control circuit (18) outputs an onboard sensor output signal (19) which can be used as a vehicle speed signal, a signal, or a brake signal. The signal processing and control circuit (18) also receives feedback from the yaw rate sensor (17) and the rectangular wave modulating circuit (15).



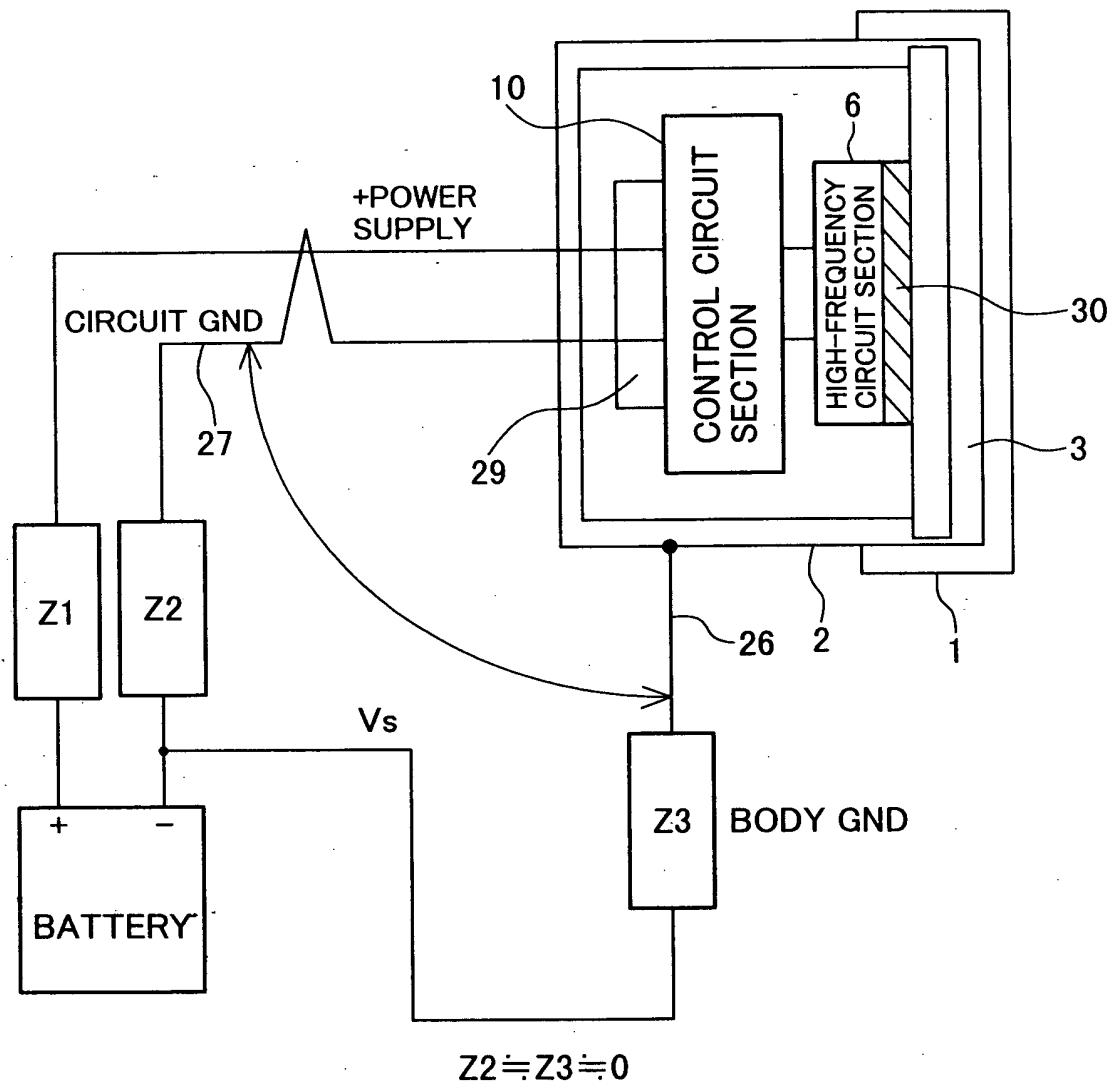
**FIG.2**



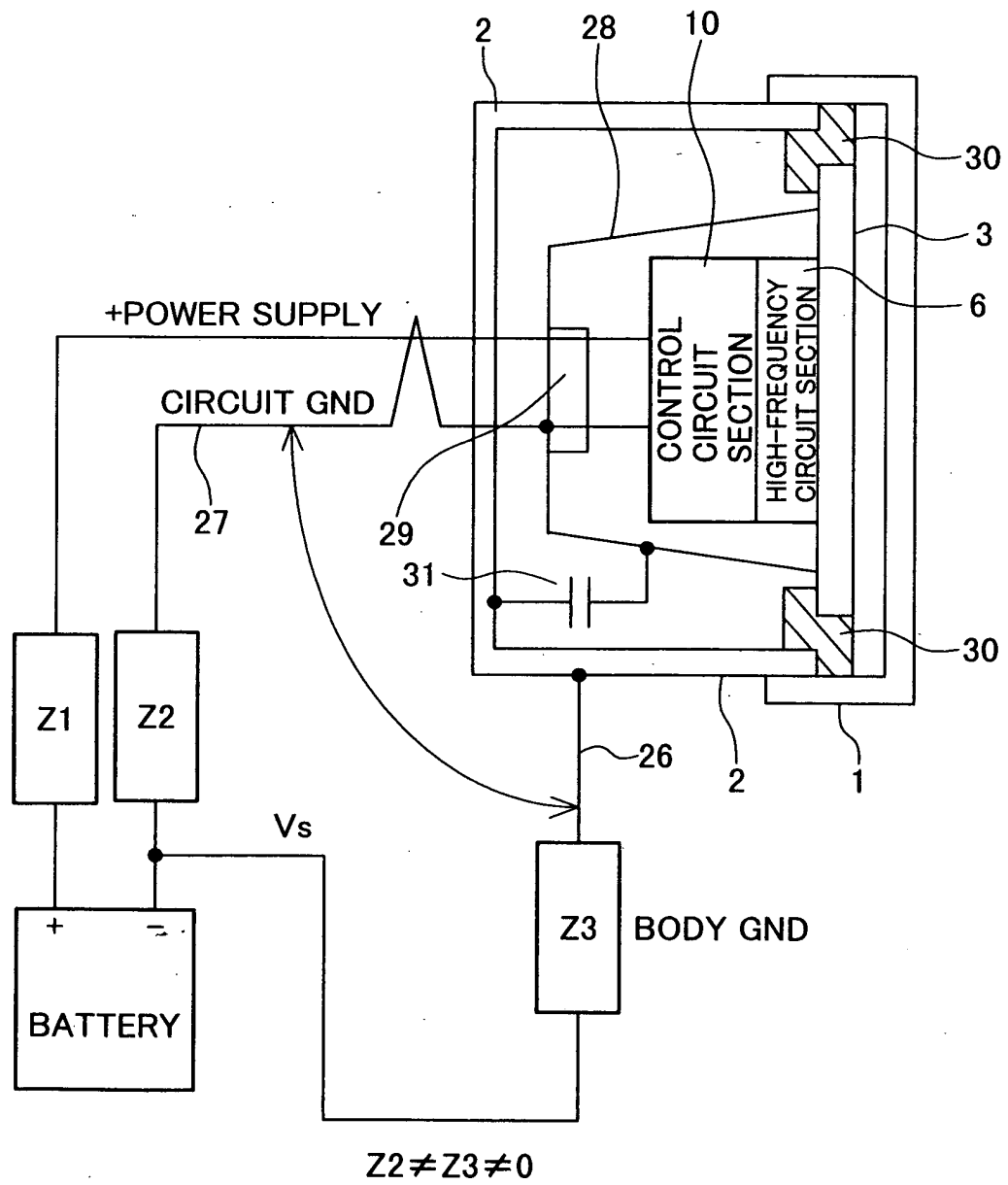
**FIG.3A**



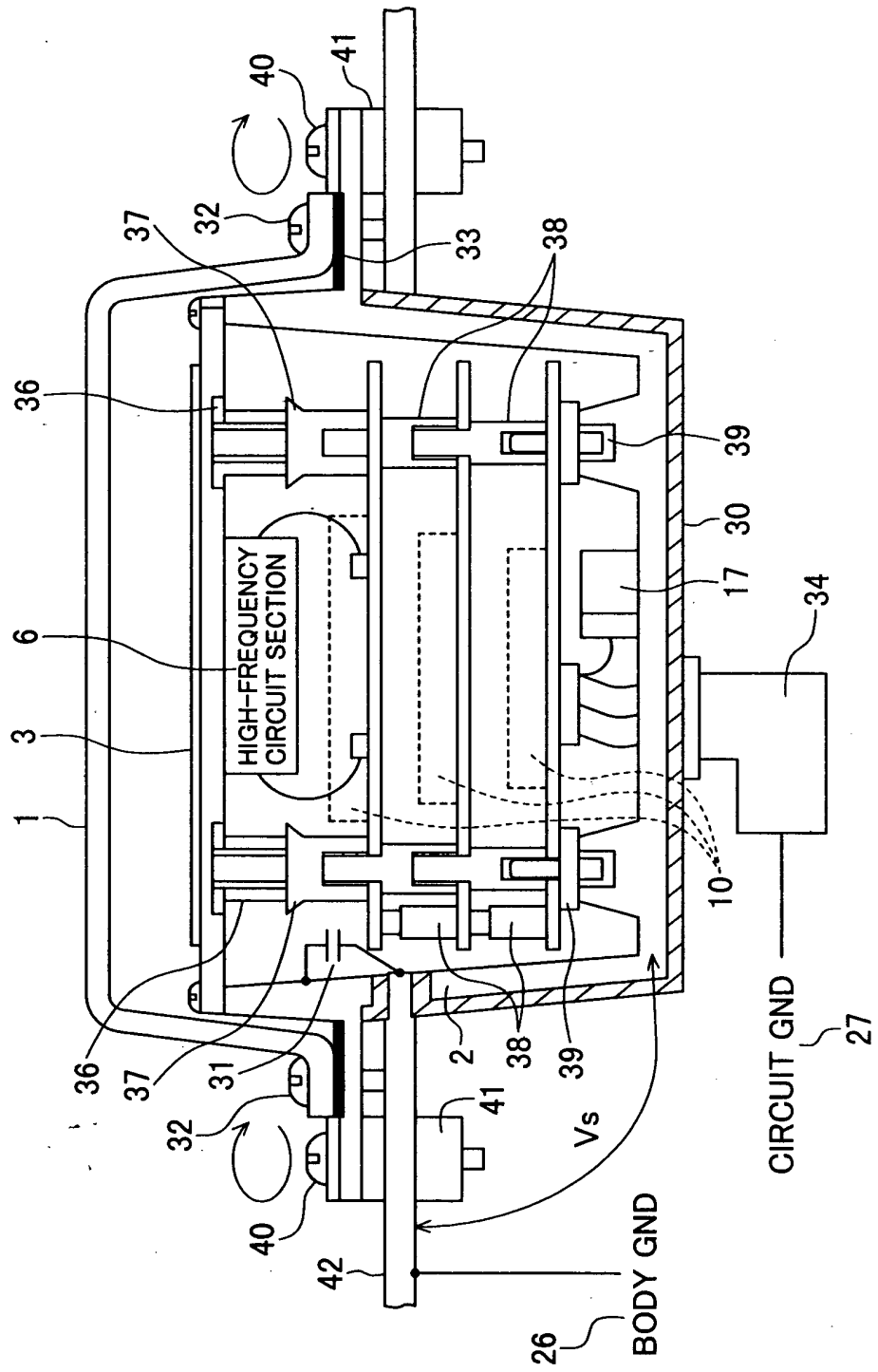
**FIG.3B**



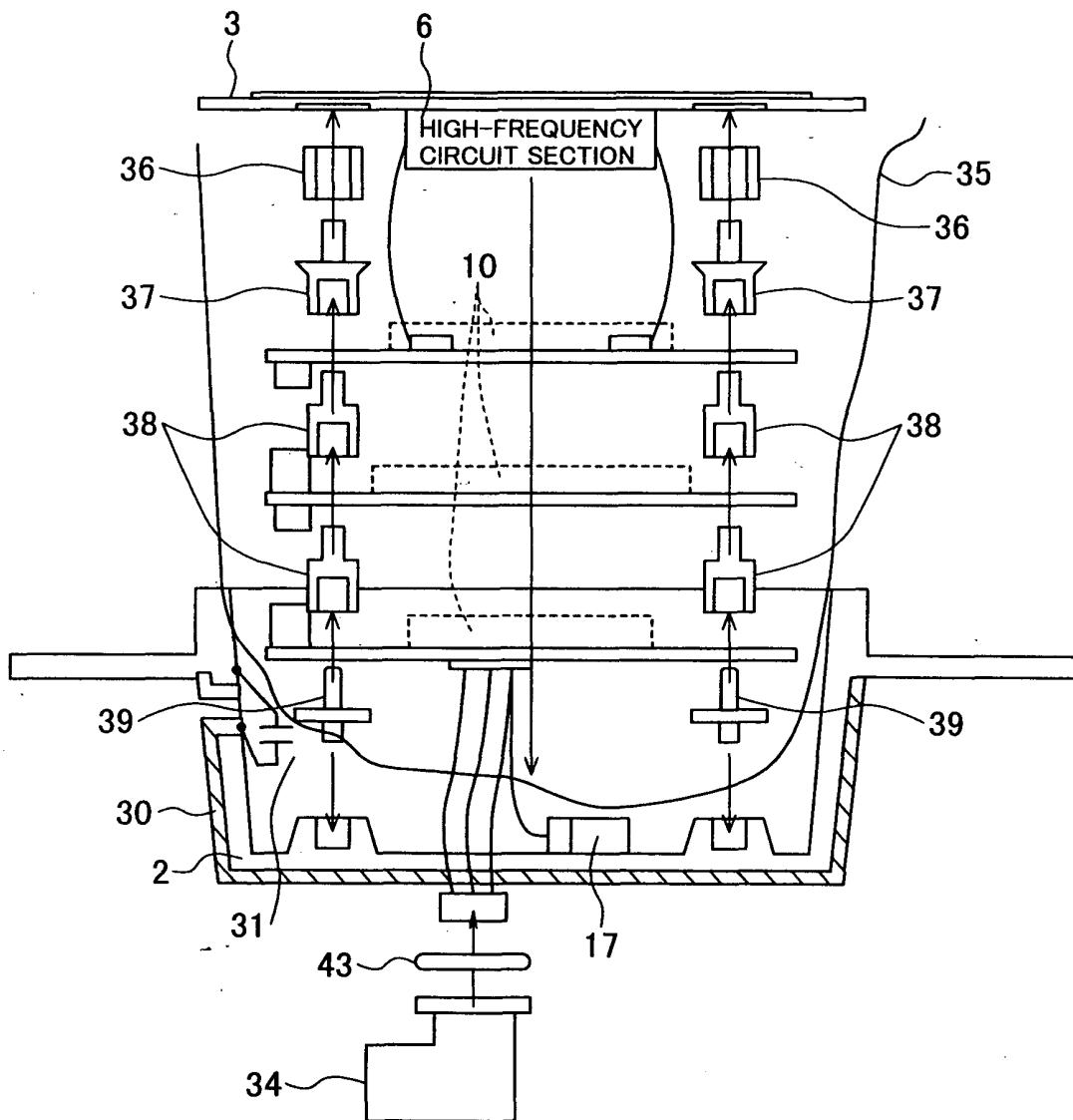
**FIG.3C**



**FIG.4**



**FIG. 5**



**FIG.6**

